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<110> RANGANATHAN, ANAND

<120> DNA MANIPULATION METHODS AND APPLICATIONS FOR SYNTHETIC ENZYMES

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<140> 10/009,873

<141> 2002-11-1

<150> PCT/GB00/02286

<151> 2000-06-12

<150> GB 9913694.7

<151> 1999-06-11

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<170> PatentIn Ver. 3.3

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<213> Streptomyces lividans

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35					40					45					
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Tyr	Gly	Pro	Glu	Ser	Ser	Gly	Lys	Thr	Thr	Leu	Thr	Leu	His	Ala	Val
65					70					75					80
Ala	Asn	Ala	Gln	Lys	Ala	Gly	Gly	Gln	Val	Ala	Phe	Val	Asp	Ala	Glu
				85					90					95	
His	Ala	Leu	Asp	Pro	Glu	Tyr	Ala	Lys	Lys	Leu	Gly	Val	Asp	Ile	Asp
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Asn	Leu	Ile	Leu	Ser	Gln	Pro	Asp	Asn	Gly	Glu	Gln	Ala	Leu	Glu	Ile
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Val	Asp	Met	Leu	Val	Arg	Ser	Gly	Ala	Leu	Asp	Leu	Ile	Val	Ile	Asp
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Ser	Val	Ala	Ala	Leu	Val	Pro	Arg	Ala	Glu	Ile	Glu	Gly	Glu	Met	Gly
145						150					155				160
Asp	Ser	His	Val	Gly	Leu	Gln	Ala	Arg	Leu	Met	Ser	Gln	Ala	Leu	Arg
				165					170					175	
Lys	Ile	Thr	Ser	Ala	Leu	Asn	Gln	Ser	Lys	Thr	Thr	Ala	Ile	Phe	Ile
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Asn	Gln	Leu	Arg	Glu	Lys	Ile	Gly	Val	Met	Phe	Gly	Ser	Pro	Glu	Thr
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Thr	Thr	Gly	Gly	Arg	Ala	Leu	Lys	Phe	Tyr	Ala	Ser	Val	Arg	Leu	Asp
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Lys	Lys	Ile	Lys	Gln	Lys	Leu	Gly	Val	Gly	Val	His	Pro	Glu	Glu	Ser
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 Ser Lys Glu Pro Ile Glu Val Ile Pro Thr Gly Ser Thr Ala Leu Asp  
 35                      40                      45  
 Val Ala Leu Gly Val Gly Gly Leu Pro Arg Gly Arg Val Ile Glu Val  
 50                      55                      60  
 Tyr Gly Pro Glu Ser Ser Gly Lys Thr Thr Leu Thr Leu His Ala Val  
 65                      70                      75                      80  
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 85                      90                      95  
 His Ala Leu Asp Pro Glu Tyr Ala Gln Lys Leu Gly Val Asp Ile Asp  
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 115                      120                      125  
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 Asn Gln Leu Arg Glu Lys Ile Gly Val Met Phe Gly Ser Pro Glu Thr  
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 210                      215                      220  
 Ile Arg Arg Ile Glu Thr Leu Lys Asp Gly Thr Asp Ala Val Gly Asn  
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 Ala Arg Asn Phe Leu Lys Asp Asn Pro Asp Leu Ala Asn Glu Ile Glu  
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 Lys Lys Ile Lys Glu Lys Leu Gly Val Gly Val Arg Pro Glu Glu Pro  
 325 330 335  
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